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QUIZZES

Practice test-1(Hydrocarbons)



10 Questions



7 min

Topics

Free radical reaction and Mechanism

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



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06 : 56



1/10



7 min



Hint

Q : The order of reactivity of halogens with alkanes is in the order of

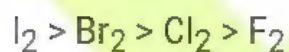
A



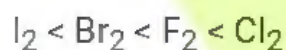
B



C



D



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06 : 53



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2/10



7 min



Hint

Q : In halogenation of alkane, the least reactive halogen is

A

F_2

B

I_2

C

Cl_2

D

Br_2

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SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 51



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3/10



7 min



Hint

Q : In free radical mechanism the step in which free radical react with free radical is called

A

Initiation

B

Propagation

C

Termination

D

All of the above

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 48



4/10



7 min



Hint

Q : The order of reactivity of halogens with alkanes in sunlight is

A

$I_2 > Br_2 > Cl_2 > F_2$

B

$Cl_2 > Br_2 > F_2 > I_2$

C

$F_2 > Cl_2 > Br_2 > I_2$

D

None of these

SAEED MDCAT

SAEED MDCAT TEAM



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06 : 46



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5/10



7 min



Hint

Q : Formula of chloroform is

A

CH_3Cl

B

CCl_4

C

CH_2Cl_2

D

CHCl_3

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06 : 44



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6/10



7 min



Hint

Q :

When methane reacts with Cl_2 in the presence of diffused sunlight, the products obtained are

A

Chloroform only

B

Carbon tetrachloride only

C

Chloromethane and dichloromethane

D

Mixture of a, b, c

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 41



7/10



7 min



Hint

Q : Propagation of free radical mechanism takes place by the

A

Reaction of free radical with free radical

B

Formation of two free radicals

C

Consumption as well as production of another free radical

D

Reaction between two molecules

SAEED MDCAT

SAEED MDCAT TEAM



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06 : 37



8/10



7 min



Hint

Q : The chlorination of methane to give CCl_4 is an example of

A

An addition reaction

B

A chain reaction

C

A reduction

D

An elimination reaction

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10

06 : 34



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9/10



7 min



Hint

Q : Which one of the following is called free radical

A



B



C



D



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9

10

Q : Which one of the following is a initiation step in the reaction between CH_4 and Cl_2

- ☐ $\text{CH}_3\cdot + \text{Cl}\cdot \rightarrow \text{CH}_3\text{Cl}$
- ☐ $\text{CH}_3\cdot + \text{CH}_3\cdot \rightarrow \text{CH}_3\text{CH}_3$
- ☐ $\text{Cl}_2 \rightarrow 2\text{Cl}\cdot$
- ☐ $\text{CH}_3\cdot + \text{Cl}_2 \rightarrow \text{CH}_3\text{Cl} + \text{HCl}$

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SAEED MDCAT TEAM

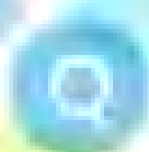
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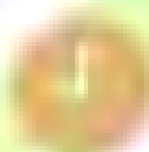


QUIZ RESULT

Practice test-1(Hydrocarbons)



0/10



0%

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correct



1/10

Q : The order of reactivity of halogens with alkanes is in the order of



$I_2 > F_2 > Cl_2 > Br_2$



$I_2 < Br_2 < Cl_2 < F_2$



$I_2 > Br_2 > Cl_2 > F_2$



$I_2 < Br_2 < F_2 < Cl_2$

SAEED MDCAT

SAEED MDCAT TEAM



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correct



2/10

Q : In halogenation of alkane, the least reactive halogen is



F_2



I_2



Cl_2



Br_2

Explanation

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The order of reactivity of halogens with alkanes is in the order $I_2 < Br_2 < Cl_2 < F_2$

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Correct



Unattempted



Incorrect



3/10

Q : In free radical mechanism the step in which free radical react with free radical is called



Initiation



Propagation



Termination

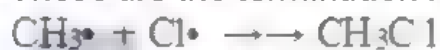


All of the above

Explanation

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These are the termination reactions





Correct



Unanswered



Incorrect



4/10

Q : The order of reactivity of halogens with alkanes in sunlight is



$I_2 > Br_2 > Cl_2 > F_2$



$Cl_2 > Br_2 > F_2 > I_2$



$F_2 > Cl_2 > Br_2 > I_2$



None of these

Explanation

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The order of reactivity of halogens with alkanes in sunlight is $F_2 > Cl_2 > Br_2 > I_2$



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correct



5/10

Q : Formula of chloroform is



CH_3Cl



CCl_4



CH_2Cl_2



CHCl_3

Explanation

Formula of chloroform is CHCl_3



SAEEDMDCAT



correct



6/10

Q:

When methane reacts with Cl_2 in the presence of diffused sunlight, the products obtained are



Chloroform only



Carbon tetrachloride only



Chloromethane and dichloromethane



Mixture of a, b, c

Explanation

By free Radical Mechanism of alkanes, chloroform, chloromethane, dichloromethane, and carbon tetrachloride is produced.



Correct



Unattempted



Incorrect



7/10

Q : Propagation of free radical mechanism takes place by the



Reaction of free radical with free radical



Formation of two free radicals



Consumption as well as production of another free radical



Reaction between two molecules

Explanation

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These are the propagation reactions:





Correct

Unattempted



Incorrect



Marked

Q : The chlorination of methane to give CCl_4 is an example of



An addition reaction



A chain reaction



A reduction



An elimination reaction

Explanation

Halogenation of alkanes is a free radical mechanism, which consists of three steps:

1. Initiation
1. Propagation
1. Termination

This reaction is also considered as chain reaction



Correct

:

Unattempted



Incorrect



9/10

Q : Which one of the following is called free radical



Cl^+



Cl^-



Cl



Cl_2

Explanation

A **free radical** can be defined as any molecular species capable of independent existence that contains an unpaired electron in an atomic orbital. It is represented as Cl^\cdot (a dot on top right corner of the symbol)

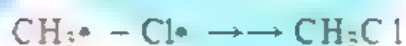


correct



10/10

Q : Which one of the following is a initiation step in the reaction between CH_4 and Cl_2



Explanation

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An **initiation step** is a reaction in which radicals are generated from a stable specie



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QUIZZES

Practice test-2 (Hydrocarbons)

10 Questions

10 min

Options

Start Quiz

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Q:

If ozonolysis of an alkene produce acetone and propionaldehyde, then the alkene is

2-Methyl-1-pentene

2-Methyl-3-Ethyl-propene

2-Methyl-2-pentene

4-Methyl-3-pentene

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SAEED MDCAT TEAM

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Q:

Which of the following set can be used for dehydration of alcohols?

☐ A Al_2O_3 , H_2SO_4 , H_3PO_4 , P_4O_{10}

☐ B AlCl_3 , H_2SO_4 , H_3PO_4

☐ C Al_2O_3 , H_2SO_4 , H_2PO_3 , P_4O_{10}

☐ D AlCl_3 , H_2SO_4 , H_3PO_4 , P_2O_3

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Q:

The ease of dehydration of alcohols is in the order of:

Tertiary alcohol > Primary alcohol >
Secondary alcohol

Tertiary alcohol > Secondary alcohol >
Primary alcohol

Tertiary alcohol < Primary alcohol >
Secondary alcohol

Secondary alcohol > Primary alcohol >
Tertiary alcohol

Q:

The test for unsaturation of organic compounds is carried out by treating alkenes with 1% dilute alkaline KMnO_4 solution. The color of KMnO_4 is discharged with the formation of:

Ethylene glycol

Vicinal glycol

Glyoxal

Oxalic acid

Q:

Ozonides are unstable compounds and are reduced to carbonyl compounds with Zn and H_2O . This test is used to locate position of:

☐ C = C bond

☐ C = O bond

☐ C = N bond

☒ All of these



Q:

Addition of HX to $\text{CH}_3\text{CH}=\text{CH}_2$ takes place according to:

Hund's Rule

Markownikov's Rule

Aufbau principle

Octet rule

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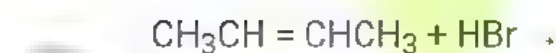
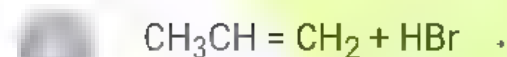
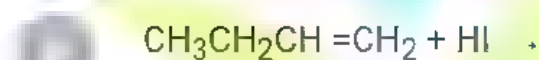
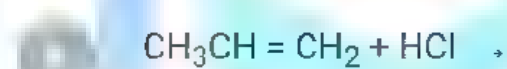
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Q:

In which reaction addition Markownikov's rule is not obeyed:



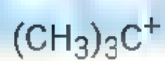
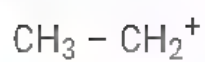
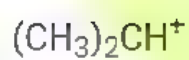
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Q:

Which ion is the most stable carbocation?



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SAEED MDCAT TEAM

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Q:

The olefins are

☐ V

☐ Alkane

☐ alkene

☐ alkyne

☐ none of these

SAEED MDCAT

SAEED MDCAT TEAM

f SAEEDMDCAT

Q:

The dehydration of tertiary alcohols can be done in the presence of

$\text{Al}_2\text{O}_3/340 - 450^\circ\text{C}$

75% conc. H_2SO_4 / $140-170^\circ\text{C}$

20% conc. H_2SO_4 / 85°C

all of these

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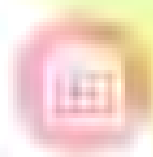
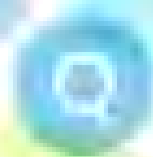
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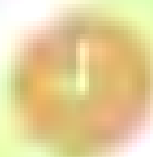


QUIZ RESULT

Practice test-2(Hydrocarbons)



0/10



Time

Attempts

0%

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SAEEDMDCAT





correct



1/10

Q:

If ozonolysis of an alkene produce acetone and propionaldehyde, then the alkene is



2-Methyl-1-pentene



2-Methyl-3-Ethyl-propene



2-Methyl-2-pentene



4-Methyl-3-pentene

Q.

Which of the following set can be used for dehydration of alcohols?

☒ $\text{Al}_2\text{O}_3, \text{H}_2\text{SO}_4, \text{H}_3\text{PO}_4, \text{P}_4\text{O}_{10}$

☐ $\text{AlCl}_3, \text{H}_2\text{SO}_4, \text{H}_3\text{PO}_4$

☐ $\text{Al}_2\text{O}_3, \text{H}_2\text{SO}_4, \text{H}_2\text{PO}_3, \text{P}_4\text{O}_{10}$

☐ $\text{AlCl}_3, \text{H}_2\text{SO}_4, \text{H}_3\text{PO}_4, \text{P}_2\text{O}_3$

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Explanation

SAEEDMDCAT

Dehydrating agents

$\text{Al}_2\text{O}_3, \text{H}_2\text{SO}_4, \text{H}_3\text{PO}_4, \text{P}_4\text{O}_{10}$



Correct

Incorrect

3/10

Q:

The ease of dehydration of alcohols is in the order of:

Tertiary alcohol > Primary alcohol >
Secondary alcohol

Tertiary alcohol > Secondary alcohol >
Primary alcohol

Tertiary alcohol < Primary alcohol >
Secondary alcohol

Secondary alcohol > Primary alcohol >
Tertiary alcohol

Tertiary alcohol > Primary alcohol >
Secondary alcohol

Tertiary alcohol > Secondary alcohol >
Primary alcohol

Tertiary alcohol < Primary alcohol >
Secondary alcohol

Secondary alcohol > Primary alcohol >
Tertiary alcohol

Explanation

Ease of dehydration of alcohols is 3° Alcohol >
 2° Alcohol > 1° Alcohol

Because more electron donating group attached
with 3° alcohol

Q.

The test for unsaturation of organic compounds is carried out by treating alkenes with 1% dilute alkaline KMnO_4 solution. The color of KMnO_4 is discharged with the formation of:

Ethylene glycol

Vicinal glycol

Glyoxal

Oxalic acid

Explanation

Bayer's test

Ozonides are unstable compounds and are reduced to carbonyl compounds with Zn and H_2O . This test is used to locate position of:

☒ C = C bond

☐ C = O bond

☐ C = N bond

☐ All of these

Explanation

Ozonolysis is used to test the position of double bond

Q:

Addition of HX to $\text{CH}_3\text{CH}=\text{CH}_2$ takes place according to:

☐ Hund's Rule

☒ Markownikov's Rule

☐ Aufbau principle

☐ Octet rule

Explanation

Addition of unsymmetrical reagent to an unsymmetrical alkenes follow Markonikov's rule.



Correct



Unattempted



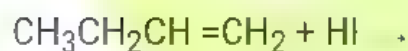
Correct



7/10

Q:

In which reaction addition Markownikov's rule is not obeyed:



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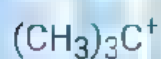
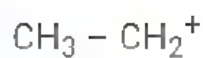
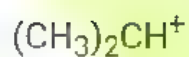
Explanation

Markonikov's rule is obeyed by only unsymmetrical alkenes.

2-Butene ($\text{CH}_3\text{CH}=\text{CHCH}_3$) is symmetrical alkene

Q:

Which ion is the most stable carbocation?



SAEED MDCAT TEAM

Explanation

SAEEDMDCAT

Order of stability of carbocations $3^\circ > 2^\circ > 1^\circ$



correct



9/10

Q:

The olefins are

V



Alkane



alkene



alkyne



none of these

Q:

The dehydration of tertiary alcohols can be done in the presence of

$\text{Al}_2\text{O}_3/340 - 450^\circ\text{C}$

75% conc. $\text{H}_2\text{SO}_4 / 140-170^\circ\text{C}$

20% conc. $\text{H}_2\text{SO}_4 / 85^\circ\text{C}$

all of these

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Explanation

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tertiary alcohols are easily oxidized relative to primary and secondary alcohols. Thus, tertiary alcohols require relatively mild condition for dehydration

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QUIZZES

Practice test-3(Hydrocarbons)

10 Questions

1 Test

10/10/2025

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SAEEDMDCAT

Q:

When 20% H_2SO_4 reacts with propyne in the presence of HgSO_4 , it gives

☐ Ethanal

☐ Propanol

☐ Propanoic Acid

☒ Acetone

SAEED-MDCAT

SAEED-MDCAT TEAM

SAEEDMDCAT

Q:

Acetone is prepared by the hydration of

Ethyne

Propyne

Ethane

Propane

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q:

Ethyne can be identified by treating with ammoniacal cuprous chloride or ammoniacal silver nitrate. Which of the following will also give this test?

☐ Ethene

☐ 1-butyne

☐ 2-butyne

☒ 2-pentyne

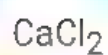
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SAEED MDCAT TEAM

f SAEEDMDCAT

Q:

Which of the following is used as a starting material for the production of ethyne



SAEED MD CAT TEAM

SAEEDMDCAT

Q:

Which of the following reagent is used to distinguish between ethene and ethyne

☐ Alkaline KMnO_4

☐ Br_2 water

☐ Cl_2 water

☒ Ammoniacal Cu_2Cl_2

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q:

The Dicopper acetylide can be regenerated into ethyne by using

HCl

NaOH

KMnO₄

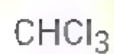
All of these

SAEED MDCAT TEAM

SAEEDMDCAT

Q:

Chlorine reacts readily with ethyne in presence of



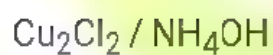
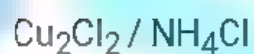
SAEED MDCAT

SAEED MDCAT TEAM

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Q:

Ethyne polymerize into chloroprene in the presence of



SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT



Q:

In Kolbe's electrolysis ethyne can be prepared by using

Potassium succinate

Potassium maleate

Potassium acetate

Potassium formate

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT



Q:

The formation of ethyne from ethylene di-bromide is an example of

Spontaneous reaction

Elimination reaction

Substitution reaction

Addition reaction

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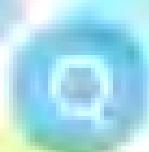
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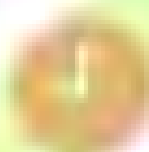


QUIZ RESULT

Practice test-3(Hydrocarbons)



0/10



Time



0%

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT





Correct



Unattempted



Incorrect



1/10

Q:

When 20% H_2SO_4 reacts with propyne in the presence of HgSO_4 , it gives



Ethanal



Propanol



Propanoic Acid



Acetone



1

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correct



2/10

Q:

Acetone is prepared by the hydration of



Ethyne



Propyne



Ethane



Propane

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

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Q:

Ethyne can be identified by treating with ammoniacal cuprous chloride or ammoniacal silver nitrate. Which of the following will also give this test?

Ethene

1-butyne

2-butyne

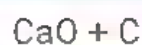
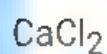
2-pentyne

Explanation

Terminal alkynes gives this test

Q:

Which of the following is used as a starting material for the production of ethyne



SAEED MDCAT

SAEED MDCAT TEAM

Explanation



SAEEDMDCAT





Q:

Which of the following reagent is used to distinguish between ethene and ethyne



Alkaline KMnO_4



Br_2 water



Cl_2 water



Ammoniacal Cu_2Cl_2

SAEED MDCAT TEAM

Explanation

SAEED MDCAT

Ethyne reacts with Ammoniacal Cu_2Cl_2 to give reddish brown ppt of dicopperacetylides whereas ethene does not reacts with ammoniacal Cu_2Cl_2

Q.

The Dicopper acetylide can be regenerated into ethyne by using

☒ HCl

☐ NaOH

☐ KMnO_4

☐ All of these

Explanation

Silver and copper acetylides reacts with acids to regenerate ethyne



correct



7/10

Q:

Chlorine reacts readily with ethyne in presence of



CH_3COOH



CHCl_3



CCl_4



H_2SO_4



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Answer



Question



Correct



8/10

Q:

Ethyne polymerize into chloroprene in the presence of



$\text{Cu}_2\text{Cl}_2 / \text{NH}_4\text{Cl}$



$\text{Cu}_2\text{Cl}_2 / \text{NH}_4\text{OH}$



$\text{CuCl}_2 / \text{NH}_4\text{Cl}$



$\text{CuCl}_2 / \text{NH}_4\text{OH}$

Q:

In Kolbe's electrolysis ethyne can be prepared by using

Potassium succinate

Potassium maleate

Potassium acetate

Potassium formate

Explanation

In Kolbe's electrolysis ethyne can be prepared by using salt of unsaturated dicarboxylic acid like Potassium maleate

Q:

The formation of ethyne from ethylene di-bromide is an example of

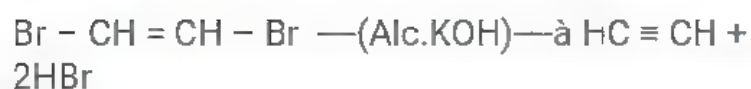
Spontaneous reaction

Elimination reaction

Substitution reaction

Addition reaction

Explanation



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QUIZZES

Practice test-4(Hydrocarbons)

10 Questions

10 Marks

10 Minutes

Start Quiz

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SAEED MDCAT TEAM



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Q:

The resonance energy of benzene is:

358.5 kJ/mole

-150.5 kJ/mole

150.5 kJ/mole

231.5 kJ/mole

SAEED MDCAT TEAM

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Q:

According to modern concept benzene has:

Three Double bond

Two double bonds

Six delocalized π electrons

One double bond

SAEED MDCAT
SAEED MDCAT TEAM

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Q:

What is a heat of hydrogenation of 1,3 - cyclohexadiene

-119.5kJ/ mol

-150.5kJ/ mol

-231.5kJ/ mol

-208.5kJ/ mol

SAEED MDCAT

SAEED MDCAT TEAM

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Q:

Which of the following is a tricyclic compound?

☐ Benzene

☐ Anthracene

☐ Naphthalene

☒ Toluene

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Q:

The reaction of bromobenzene with ethylbromide in presence of Na/ether is called:

Wurtz reaction

Frieda craft reaction

Halogenation

Wurtz-Fittig reaction

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Q:

Benzene shows _____ reactions.

Addition

substitution

both a & b

none of these

SAEED MDCAT

SAEED MDCAT TEAM

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Q:

Among the following compounds which can be readily sulphonated:

☐ Phenol

☐ Nitrobenzene

☐ Benzene

☐ Chlorobenzene

SAEED MDCAT TEAM

SAEEDMDCAT

Q:

Which of the following is produced by the action of CH_3Cl on benzene in presence of AlCl_3 :

☐ Toluene

☐ Chlorobenzene

☐ Ortho-Chlorotoluene

☐ Both (a) and (b)

SAEED MD CAT TEAM

SAEEDMDCAT

Q:

Which one does not undergo polymerization?

Benzene

Ethyne

Ethene

Chloroprene

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SAEED MDCAT TEAM

SAEEDMDCAT

Q:

The conversion of benzene to chlorobenzene is an example of _____ reaction

Electrophilic addition

Nucleophile addition

Electrophilic substitution

Nucleophile substitution

SAEED MDCAT

SAEED MDCAT TEAM

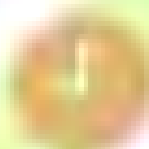
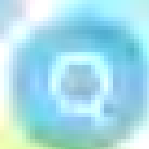
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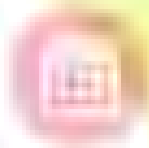


QUIZ RESULT

Practice test-4(Hydrocarbons)



Time



Score



C / 10



0%

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SAEED MDCAT TEAM



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Q.

The resonance energy of benzene is:

☐ 358.5 kJ/mole

☐ -150.5 kJ/mole

☒ 150.5 kJ/mole

☐ 231.5 kJ/mole

SAEED MDCAT
SAEED MDCAT TEAM

SAEED MDCAT

Explanation

The resonance energy of benzene is 150.5 kJ/mol

Q:

According to modern concept benzene has:

☐ Three Double bond

☐ Two double bonds

☒ Six delocalized π electrons

☐ One double bond

SAEED MDCAT
SAEED MDCAT TEAM

SAEED MDCAT

Explanation

Benzene has six delocalized pi electrons

What is a heat of hydrogenation of 1,3 - cyclohexadiene

-119.5kJ/ mol

-150.5kJ/ mol

-231.5kJ/ mol

208.5kJ/ mol

SAEED MDCAT

SAEED MDCAT TEAM

Explanation

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It contains 2 conjugate double bonds hence its heat of hydrogenation is slightly less than twice of the heat of hydrogenation of monoene.



/

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Correct



Incorrect



Incorrect



4/10

Q:

Which of the following is a tricyclic compound?



Benzene



Anthracene



Naphthalene



Toluene

1

2

3

4

5

6

/



Correct



Unattempted



Incorrect



5/10

Q:

The reaction of bromobenzene with ethylbromide in presence of Na/ether is called:



Wurtz reaction



Friedal craft reaction



Ha ogenation



Wurtz-Fittig reaction



Q:

Benzene shows _____ reactions.

☐ Addition

☐ substitution

☒ both a & b

☐ none of these

SAEED MDCAT

SAEED MDCAT TEAM

Explanation

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Benzene gives addition reaction with hydrogen and halogens, and substitution reaction with Conc. HNO_3 and Conc. H_2SO_4



Practice test-4(Hydrocarbons)

Q:

Among the following compounds which can be readily sulphonated:

A

Phenol

B

Nitrobenzene

C

Benzene

D

Chlorobenzene

Explanation

Benzene having ortho-para director group are reactive.



Practice test-4(Hydrocarbons)

Incorrect



8/10

Q:

Which of the following is produced by the action of CH_3Cl on benzene in presence of AlCl_3 :

A

Toluene

B

Chlorobenzene

C

Ortho-Chlorotoluene

D

Both (a) and (b)



Explanation

SAEEDMDCAT

Friedel-Craft alkylation

4

5

6

7

8

9

10



Practice test-4(Hydrocarbons)



Correct



Unattempted



Incorrect



9/10

Q:

Which one does not undergo polymerization?



Benzene



Ethyne



Ethene



Chloroprene

4

5

6

7

8

9

10



Practice test-4(Hydrocarbons)



Correct



Unattempted



Incorrect



10/10

Q:

The conversion of benzene to chlorobenzene is an example of _____ reaction

A

Electrophilic addition

B

Nucleophile addition

C

Electrophilic substitution

D

Nucleophile substitution